

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Patent Application of:
Alexander T. Garthwaite

Confirmation No.: 7446

Application No.: 10/824,968

Art Unit: 2165

Filed: April 15, 2004

Examiner: R. Hoffler

For: PARALLEL REMEMBERED-SET
PROCESSING RESPECTING POPULAR-
OBJECT DETECTION

MS Issue Fee
Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

COMMENTS ON STATEMENT OF REASONS FOR ALLOWANCE

As an initial matter, Applicant thanks the Examiner for indicating that claims 41-57 are allowed. *See* Notice of Allowability Form PTOL-37 included with the Notice of Allowance dated June 4, 2009 (hereinafter “NOA”). However, Applicant is unable to reconcile the Examiner’s Reasons for Allowance with the limitations of allowed claims 41-57. *See* NOA at pages 4-6. Instead, Applicant respectfully asserts that the cited prior art references, whether viewed separately or in combination, neither anticipate nor render obvious, at least: “obtaining a collection set of objects in a computer system, wherein the collection set is associated with a collector interval of a collection cycle; partitioning the collection set of objects into a plurality of sections, wherein a section of the plurality of sections corresponds to memory of the computer system and is associated with a remembered set; partitioning the section into a plurality of segments, wherein a first segment

of the plurality of segments corresponds to a portion of the memory of the computer system; obtaining a first count-map for the section, wherein the first count-map is associated with a first thread executing on a processor of the computer system, and wherein a first entry in the first count-map is associated with the first segment of the plurality of segments; identifying a first plurality of references to objects in the first segment using the remembered set; incrementing the first entry based on a size of the first plurality of references; comparing the first entry with a popular-object threshold to generate a first comparison; and evacuating a first object from the first segment based on the first comparison to reclaim the portion of the memory of the computer system for reuse,” as recited by independent claim 41. Independent claim 49 and 57 recite similar limitations. Accordingly, independent claims 41, 49, and 57 are patentable over the cited prior art references. Claims 42-48 and 50-56 depend, either directly or indirectly, from independent claims 41 and 49. Accordingly, claims 42-48 and 50-56 are patentable for at least the same reason.

Please apply any charges not covered, or any credits, to Deposit Account 50-0591 (Reference Number 33226/980001).

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Respectfully submitted,

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